

| Exploring the Extreme | | | |
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| 2007 Science | | | |
| Curriculum Standards | | | |
| Kansas Science | | | |
| Grades K-2 | | | |
| Activity/Lesson | State | Standards | |
| Finding the Center of Gravity Using Rulers | KS | SCI.K-2.2.1.1 | observes properties of objects and measures or describes those properties using age-appropriate tools and materials. |
| Finding the Center of Gravity Using Rulers | KS | SCI.K-2.2.1.4 | describes the position of an object in relation to other objects. |
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| Exploring the Extreme | | | |
| 2007 Science | | | |
| Curriculum Standards | | | |
| Kansas Science | | | |
| Grades 3-4 | | | |
| Activity/Lesson | State | Standards | |
| Finding the Center of Gravity Using Rulers | KS | SCI.3-4.1.1.1 | asks questions that he/she can answer by investigating. |
| Finding the Center of Gravity Using Rulers | KS | SCI.3-4.1.1.2 | plans and conducts a simple investigation. |
| Finding the Center of Gravity Using Rulers | KS | SCI.3-4.1.1.4 | begins developing the abilities to communicate, critique, analyze his/her own investigations, and interprets the work of other students. |
| Finding the Center of Gravity Using Rulers | KS | SCI.3-4.2.1.1 | observes properties of objects and measures those properties using appropriate tools. |
| Finding the Center of Gravity Using Rulers | KS | SCI.3-4.2.2.1 | moves objects by pushing, pulling, throwing, spinning, dropping, and rolling; and describes the motion. |
| Finding the Center of Gravity Using Rulers | KS | SCI.3-4.2.2.2 | describes the change in position of objects when moved. |
| Finding the Center of Gravity Using Plumb Lines | KS | SCI.3-4.1.1.1 | asks questions that he/she can answer by investigating. |
| Finding the Center of Gravity Using Plumb Lines | KS | SCI.3-4.1.1.4 | begins developing the abilities to communicate, critique, analyze his/her own investigations, and interprets the work of other students. |
| Finding the Center of Gravity Using Plumb Lines | KS | SCI.3-4.2.1.1 | observes properties of objects and measures those properties using appropriate tools. |
| Finding the Center of Gravity Using Plumb Lines | KS | SCI.3-4.2.2.1 | moves objects by pushing, pulling, throwing, spinning, dropping, and rolling; and describes the motion. |

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| Finding the Center of Gravity Using Plumb Lines | KS | SCI.3-4.2.2.2 | describes the change in position of objects when moved. |
| Changing the Center of Gravity Using Moment Arms | KS | SCI.3-4.1.1.1 | asks questions that he/she can answer by investigating. |
| Changing the Center of Gravity Using Moment Arms | KS | SCI.3-4.1.1.2 | plans and conducts a simple investigation. |
| Changing the Center of Gravity Using Moment Arms | KS | SCI.3-4.1.1.4 | begins developing the abilities to communicate, critique, analyze his/her own investigations, and interprets the work of other students. |
| Changing the Center of Gravity Using Moment Arms | KS | SCI.3-4.2.1.1 | observes properties of objects and measures those properties using appropriate tools. |
| Changing the Center of Gravity Using Moment Arms | KS | SCI.3-4.2.2.1 | moves objects by pushing, pulling, throwing, spinning, dropping, and rolling; and describes the motion. |
| Changing the Center of Gravity Using Moment Arms | KS | SCI.3-4.2.2.2 | describes the change in position of objects when moved. |
| Exploring the Extreme | | | |
| 2007 Science | | | |
| Curriculum Standards | | | |
| Kansas Science | | | |
| Grades 5-7 | | | |
| Activity/Lesson | State | Standards | |
| Jet Propulsion | KS | SCI.5-7.1.1.4 | communicates scientific procedures, results and explanations. |
| Vectoring | KS | SCI.5-7.1.1.4 | communicates scientific procedures, results and explanations. |
| Vectoring | KS | SCI.5-7.5.1.1 | identifies appropriate problems for technological design, designs a solution or product, implements the proposed design, evaluates the product, and communicates the process of technological design. |
| Fuel Efficiency | KS | SCI.5-7.1.1.4 | communicates scientific procedures, results and explanations. |
| Fuel Efficiency | KS | SCI.5-7.2.3.2 | describes, measures, and represents data on a graph showing the motion of an object (position, direction of motion, speed). |
| Exploring the Extreme | | | |
| 2007 Science | | | |
| Curriculum Standards | | | |
| Kansas Science | | | |
| Grades 8-12 | | | |
| Activity/Lesson | State | Standards | |
| Jet Propulsion | KS | SCI.8-12.1.1.1 | actively engages in asking and evaluating research questions. |

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| Jet Propulsion | KS | SCI.8-12.1.1.5 | actively engages in communicating and defending the design, results, and conclusion of his/her investigation. |
| Vectoring | KS | SCI.8-12.1.1.2 | actively engages in investigations, including developing questions, gathering and analyzing data, and designing and conducting research |
| Vectoring | KS | SCI.8-12.1.1.3 | actively engages in using technological tools and mathematics in their own scientific investigations. |
| Vectoring | KS | SCI.8-12.1.1.5 | actively engages in communicating and defending the design, results, and conclusion of his/her investigation. |